

CLAIMS

I claim:

1. (currently amended) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess in ~~[[said]]~~ a sash stile sliding member, said housing including a cavity, formed by a face plate a front wall and a rear wall and a first and second sidewall joining said front and rear wall and extending from said face plate;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof, said tumbler further including a recessed portion for receiving an end of a spring;

a pivot means for pivotally securing said tumbler to said housing for movement between an extended position where a front face of said tumbler overlies an edge of the ~~sliding member~~ sash stile to prevent movement of the sash stile ~~sliding member~~ past the front face of the tumbler, and a retracted position within said cavity where the sash stile ~~sliding member~~ can be moved past the tumbler;

a spring ~~means~~ for biasing said tumbler into said extended position;

~~and~~ a release member that has a first position for causing said tumbler to be in a raised extended position and a second position for causing said tumbler to be retained ~~a lowered in a retracted~~ position; ~~wherein said housing further comprises~~

and a button, disposed on the face plate of said housing so it is accessible when said housing is disposed in a recess, which when pressed causes said release member to move from said second position to said first position thereby causing said tumbler to be in a raised extended position.

2. (original) A vent stop according to claim 1 wherein the release member pivots.

3. (currently amended) A vent stop according to claim [[1]] 2 wherein said release member has a head and the tumbler has a tip and wherein the tumbler is in a lowered position when said head contacts said tip.

4. (currently amended) A vent stop according to claim 3 wherein said button has a pin that contacts a face on said release member when said button is pushed.

5-8. (canceled)

9. (currently amended) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess, said housing including a cavity formed by a faceplate and first and second side walls extending from said faceplate;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof, said tumbler further including a recessed portion for receiving an end of a spring;

pivot means extending from at least one of said first and second sidewalls for pivotally securing said tumbler to said housing for movement between an extended position, and a retracted position within said cavity,

a spring ~~means~~ for biasing said tumbler into said extended position;

and a release member for causing said tumbler to be in a ~~raised~~ extended position and a ~~lowered~~ retracted position; wherein said release member has a head that contacts said tumbler when said tumbler is in a ~~lowered~~ retracted position and does not contact said tumbler when said tumbler is in

a raised extended position.

10-13. (canceled)

14. (new) The vent stop according to claim 9 further comprising at least one retaining member extending from at least one side of said tumbler, wherein said retaining member is recieved by a recess in the said side wall of said housing.

15. (new) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess in a sash stile, said housing including a cavity formed by a faceplate a front wall and a rear wall and first and second side walls extending from said faceplate and connecting said front wall and said rear wall;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof, said tumbler further including a recessed portion for receiving an end of a spring;

a pivot means for pivotally securing said tumbler to said housing for movement between an extended position where a front face of said tumbler overlies an edge of the sash stile to prevent movement of the sash stile past the front face of the tumbler, and a retracted position within said cavity where the sash stile can be moved past the tumbler;

a spring for biasing said tumbler into said extended position;

a pair of retaining members extending from the sides of said tumbler, which dictate the maximum extended position of said tumbler, wherein said retaining members mesh with a pair of

complementary recessed tracks in said side walls;

a release member that has a first position for causing said tumbler to be in a extended position and a second position for causing said tumbler to be retained in a retracted position;

and a button, disposed on the front face of said housing so it is accessible when said housing is disposed in a recess, which when pressed in a direction perpendicular to the plane of the front face, causes said release member to move from said second position to said first position thereby causing said tumbler to be in a extended position.

16. (new) A vent stop according to claim 15 wherein the release member pivots.

17. (new) A vent stop according to claim 16 wherein said release member has a head and the tumbler has a tip and wherein the tumbler is in a lowered position when said head contacts said tip.

18. (new) A vent stop according to claim 17 wherein said button has a pin that contacts a face on said release member when said button is pushed.

19. (new) A vent stop according to claim 18 wherein said tumbler can be retracted without depressing said button.

20. (new) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess in said sliding member, said housing including a

cavity formed by a faceplate a front wall and a rear wall and first and second side walls extending from said faceplate and extending from said front wall and said rear wall;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof;

pivot means for pivotally securing said tumbler to said housing for movement between an extended position where a front face of said tumbler overlies an edge of the sliding member to prevent movement of the sliding member past the front face of the tumbler, and a retracted position within said cavity where the sliding member can be moved past the tumbler;

a spring for biasing said tumbler into said extended position;

a release member that has a first position for causing said tumbler to be in a extended position and a second position for causing said tumbler to be retained in a retracted position;

and a button, disposed on the front face of said housing so it is accessible when said housing is disposed in a recess, which when pressed in a direction perpendicular to the plane of the front face, causes said release member to move from said second position to said first position thereby causing said tumbler to be in a extended position, said tumbler may be returned to the retracted position by pressing said tumbler into said housing, without said button being pressed.

21. (new) A vent stop according to claim 20 wherein the release member pivots.

22. (new) A vent stop according to claim 21 wherein said release member has a head and the tumbler has a tip and wherein the tumbler is in a lowered position when said head contacts said tip.

23. (new) A vent stop according to claim 22 wherein said button has a pin that contacts a face on said release member when said button is pushed.

24. (new) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess, said housing including a cavity formed by a faceplate a front wall and a rear wall and first and second side walls extending from said faceplate and extending from said front wall and said rear wall;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof, said tumbler further including a recessed portion for receiving a spring;

pivot means extending from at least one of said first and second sidewalls for pivotally securing said tumbler to said housing for movement between an extended position, and a retracted position within said cavity,

a spring for biasing said tumbler into said extended position;

and a release member for causing said tumbler to be in a extended position and a retracted position; wherein said release member has a head that contacts said tumbler when said tumbler is in a retracted position and does not contact said tumbler when said tumbler is in a extended position.

25. (new) The vent stop according to claim 24 further comprising a pair recessed tracks on either side of said tumbler, wherein said recessed tracks mesh with a pair of complementary protrusions from the first and second side walls of the housing.

for magnifying or may be moved further from the target to increase the field of view.

In each of the embodiments the camera used may be sensitive to visible, ultraviolet, infrared or laser light

In each of the embodiments the camera may have integrated lighting methods including but not limited to the ones mentioned above which are integrated into the camera, are auto-calibrating and compensate for the ambient lighting.

In each of the embodiments the lighting may be point, ring or field lighting.

Brief Description of the Drawings

Figure 1 shows a perspective view of the positioner of the present invention.

Detailed Description

A representative example of a device showing the substance of the positioning apparatus of the present invention is shown in Figure 1. The device shown in Figure 1 has a first section that secures the device to the head of the patient. This securing means may be a center section with first and second arms extending therefrom. These arms extend around the side of the patient's head and are slightly flexible so that they spring gently towards the patient's head and hold the device in position. Alternatively, there may be other means of retaining the device on the patient's head such as by means of a strap, belt clasped arm etc. The armatures that come off the device and extend downwardly for the purpose of positioning the patient's head can be made out of any suitable material. One preferred material is high density opaque thermoplastic material. The ends of the armatures that are placed in the patient's ears are made of a suitable soft material which can be sterilized or covered with a thin disposable sheath to prevent the transfer of germs from one patient to another. One preferred material is natural rubber. The armatures are attached the main body of the device which is positioned above the head of the

patient.

In one embodiment of the invention one of the ear armatures does not move and the second one slides in and out of the main body and/or frontwardly and backwardly along a track.

In another embodiment of the invention both of the ear armatures are geared so that when one is moved they both move proportionally so that the patient's head remains centered in the device.

In another embodiment of the invention both of the ear armatures are hinged in the center and rise to allow the patient to step into the middle of the device.

The body of the device also houses a camera or a number of cameras which record the image of the patient inside the device. Once the patient is positioned inside of the device the doctor activates the device and the cameras begin recording. The camera can be positioned in a fixed location and be moved by the doctor to image different portions of the patient or the camera can be mounted on a movable track which allows the camera to travel around the patient and image everything. Multiple cameras in fixed positions or on tracks can be used also. The camera is capable of zooming in and out to get greater detail or a wider field of vision. The camera may also be sensitive to visible, ultraviolet, infrared or laser light. The camera can have an integrated illumination system which emits the wavelength of illumination which it is sensitive to that is auto-calibrating and compensates for ambient lighting.

When activated the camera may take a single picture or a series of pictures which can be used for a variety of purposes including but not limited to the following. Said pictures can be used to generate a printed photograph, or stored on a removable device and given to the

patient so that they can compare the lesions (freckles etc.) That they presently have and if they note any new ones to tell the physician. The images can be used to create a baseline survey of present lesions and be stored in the patient's records. The images can be digitally modified to improve visibility of the lesions by removing non-lesion artifacts, and overlying hair. The images taken by the doctor can be compared to previously taken stored images of lesions or field of view by using difference or subtraction software to detect any changes or new lesions developing. This allows for more rapid and accurate detection of any changes or new growths versus direct visual inspection. Multiple stored images of a single lesion can be reformatted in 2D and 3D to note and compare specific properties including but not limited to height, contour, crusting, growth rate, asymmetry, abrupt border cutoff, specific colors, presence of pseudopods, radial streaming and scarring. The features of isngle images can be rapidly compared to image databases such as the DANOS (Diagnostic and Neural Analysis of Skin Cancer) study. A patient can use a home camera to photograph a suspected lesion and send the data to the physician's office to see if it was a previously present at initial screening. Physicians can transmit the image data thru telemedicine for consultations, research projects, second opinions, insurance reimbursement or database additions. Image data can be in standard non-proprietary formats for ease in sharing and analyses or encrypted and non-alterable for patient chart documentation.

26. (new) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess in a sash stile, said housing including a cavity formed by a face plate a front wall and a rear wall and a first and second sidewall joining said front and rear wall extending from said face plate;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof, said tumbler further including a recessed portion for receiving an end of a spring;

a pivot means for pivotally securing said tumbler to said housing for movement between an extended position where a front face of said tumbler overlies an edge of the sash stile to prevent movement of the sash stile past the front face of the tumbler, and a retracted position within said cavity where the sash stile can be moved past the tumbler;

a spring for biasing said tumbler into said extended position;

a release member that has a first position for causing said tumbler to be in a extended position and a second position for causing said tumbler to be retained in a retracted position.

27. (new) A vent stop according to claim 26 further comprising a button, disposed on the face plate of said housing so it is accessible when said housing is disposed in a recess, which when pressed inwardly causes said release member to move from said second position to said first position thereby causing said tumbler to be in a extended position.

28. (new) A vent stop for use with a sliding member comprising:

a housing adapted to be disposed in a recess in a sash stile, said housing including a cavity

formed by a face plate a front wall and a rear wall and a first and second sidewall joining said front and rear wall extending from said face plate;

a tumbler disposed in said cavity, said tumbler including a protruding apex at the top thereof, said tumbler further including a recessed portion for receiving an end of a spring;

a pivot means for pivotally securing said tumbler to said housing for movement between an extended position where a front face of said tumbler overlies an edge of the sash stile to prevent movement of the sash stile past the front face of the tumbler, and a retracted position within said cavity where the sash stile can be moved past the tumbler;

a spring for biasing said tumbler into said extended position;

a release member that has a first position for causing said tumbler to be in a extended position and a second position for causing said tumbler to be retained in a retracted position;

and a button which when pressed causes said release member to move from said second position to said first position thereby causing said tumbler to be in a extended position.

29. (new) A vent stop according to claim 28 wherein said end of said spring has a ring which receives a protrusion in said recess in said tumbler.

AMENDMENTS

The applicant amends the paragraph starting at line 12 of page 6 to read:

“Figure 7 is a perspective view of the vent stop of Figure 1 with the tumbler removed.”

The applicant amends the paragraph starting at line 17 of page 6 to read:

“Figure 10 is a cross view of the tumbler of Figure 8 taken ~~along A-A.~~ from direction C.”

The applicant amends the paragraph starting at line 1 page 7 to read:

“Figure 11 is a ~~sectional~~ perspective view of the tumbler of Figure 8, ~~as viewed from B-B.~~”

The applicant inserts a new paragraph after line 11 page 7 which reads:

“Figure 17A is a horizontal view of the spring of Figure 17.”

The applicant inserts a new paragraph after line 8 page 8 which reads:

“Figure 33 is an example of the present invention mount on a sliding window.”

The applicant inserts a new paragraph after line 8 page 8 which reads:

“Figure 34 is an example of the present invention mount on a sliding door.”

The applicant amends the paragraph which starts at line 9 page 9 to read as follows:

“The vent stop 10 includes a housing 11 shown in FIG. 1 that retains the mechanism of the stop. The housing is installed in an opening or recess in the front surface of the sash stile. The housing 11 may have a front wall 12, rear wall 13 and side walls 14 and 15. On the top surface of the housing is a faceplate 16 which has a lip portion ~~47~~ 52 that overlaps the peripheral edge of the recess to support the housing 11 therein and to furnish an attractive exterior appearance and protect any rough edges in the opening in the sash stile. The front wall 12, the rear wall 13 and the side walls 14 and 15 extend downwardly from the under surface of the faceplate 16. The side walls 14 and 15 are each provided with an opening 17 and 18 respectively for receiving pivot members 19 and 20 on the tumbler 21. It will be appreciated that alternatively, the tumbler 21 may be provided with openings 17 and 18 and the housing with the pivot members 19 and 20. Similarly, although the openings 17 and 18 preferably extend completely through the sidewall of the housing they do not have to, provided the opening is deep enough to retain the pivot members in position.”

The applicant amends the paragraph which starts at line 11 page 11 to read as follows:

“The front wall 12 and the rear wall 13 preferably have one or more retaining pins ~~52 and 53~~ 53 and 54 that extend outwardly from the exterior surface of the housing members. Similarly, the side walls 14 and 15 of the housing may also have one or more retaining pins ~~54 and 55~~ 55 and 56 extending therefrom. These pins ~~52-55~~ 53-56 are preferably flexible and give slightly to permit the vent stop to be inserted into the opening in the sash. The gap ~~56~~ 57 between the underside ~~47~~ 52 of the faceplate 16 and the upper surface of the pin is preferably generally about the thickness of the material used in the sash stile or slightly less. The retaining pins are designed so that when the vent stop is

snapped into the opening in the sash the pins will retain the vent stop in position and not be removed easily. The faceplate 16 is preferably formed as a solid one piece member and is configured to project only slightly forward of the front surface of the stile so as not to interfere with the relative sliding movement of the sashes. The faceplate 16 may be provided with a curved outer peripheral edge ~~57~~ 58, however it will be appreciated that the outer peripheral edge may be any configuration besides curved as is desired.”

The applicant amends the paragraph which starts at line 3 page 12 to read as follows: “The faceplate 16 includes a centrally located generally elongate vertical opening 58 which is in communication with an interior cavity 59 of the housing 11. The tumbler 60 is mounted within the cavity 59 to pivot therein and to lockingly engage the upper exterior surface of the lower sash header as the lower sash header is raised.”

The applicant amends the title to read as follows: “Recessed sash lock with push button.”

The applicant has amended the drawings to include the corrections recommended by the examiner. Specifically, adding FIG 33 and FIG 34 which show the present invention mounted in a window and a door respectively, including the reference signs 10, 19, 21 and 29 in the drawings, adding a lead line to reference character in figure 2, and correcting reference character 17 to only designate one thing. Applicant has also submitted herewith formal drawings.

Please replace the current abstract with the following: